

OIL SEPARATOR FOR A WELDER

ABSTRACT

An oil separator usable with a welder and air compressor combination unit. The oil separator includes a cylindrical housing having an inlet that receives the stream of compressed air containing oil from the air compressor. Within the oil separator, there is a deflector baffle that redirects the flow of the oil to a swirling, downwardly directed path along the inner surface of the cylindrical housing where the air is separated out therefrom and passes upwardly to exit through a fluid outlet formed in the cover of the separator. The swirling oil flows downwardly through an annular slot formed between a circular plate and the inner surface of the cylindrical housing into a lower chamber where the oil is channeled by radially directed baffles into radial channels to redirect that oil toward an oil outlet at the center of the circular bottom where that oil exits to be re-circulated in the combination unit or for disposal.